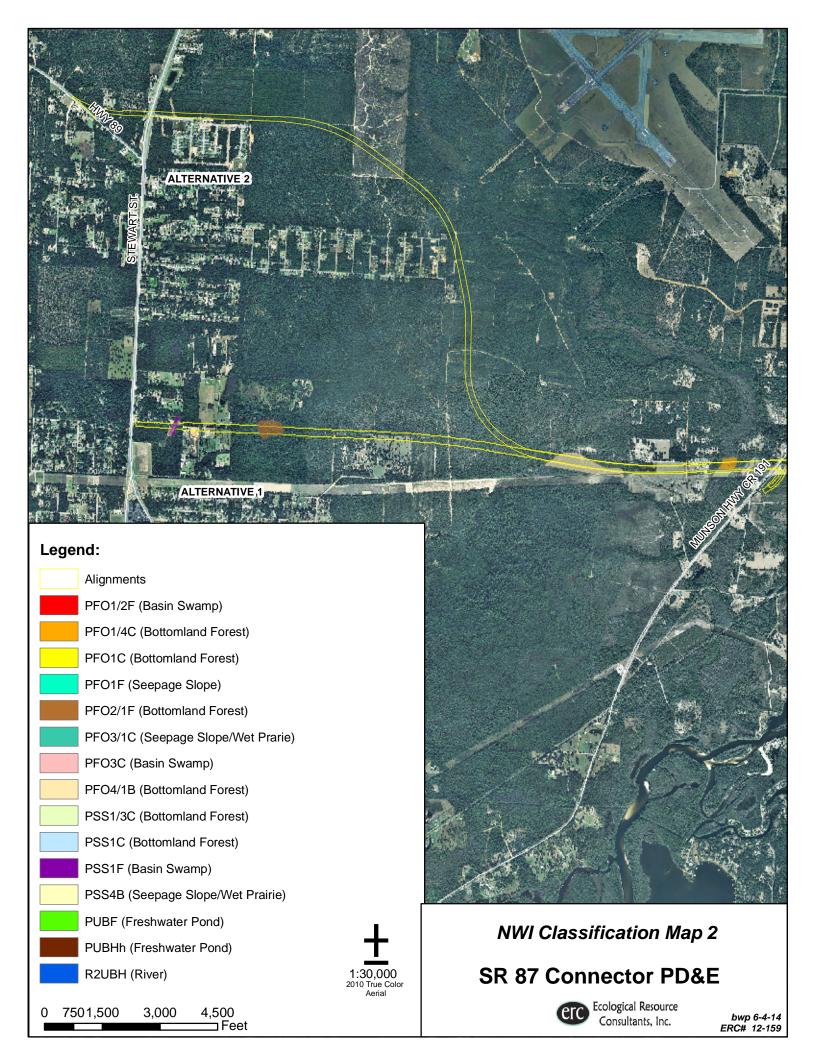
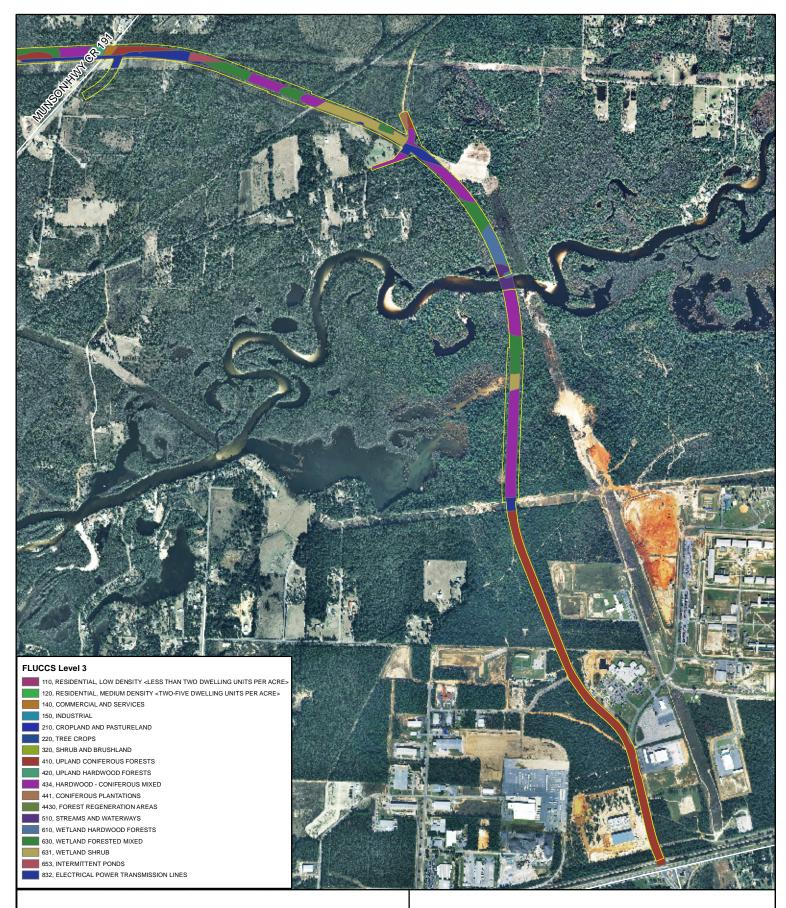


bwp 6-4-14 ERC# 12-159

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Legend:

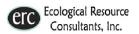


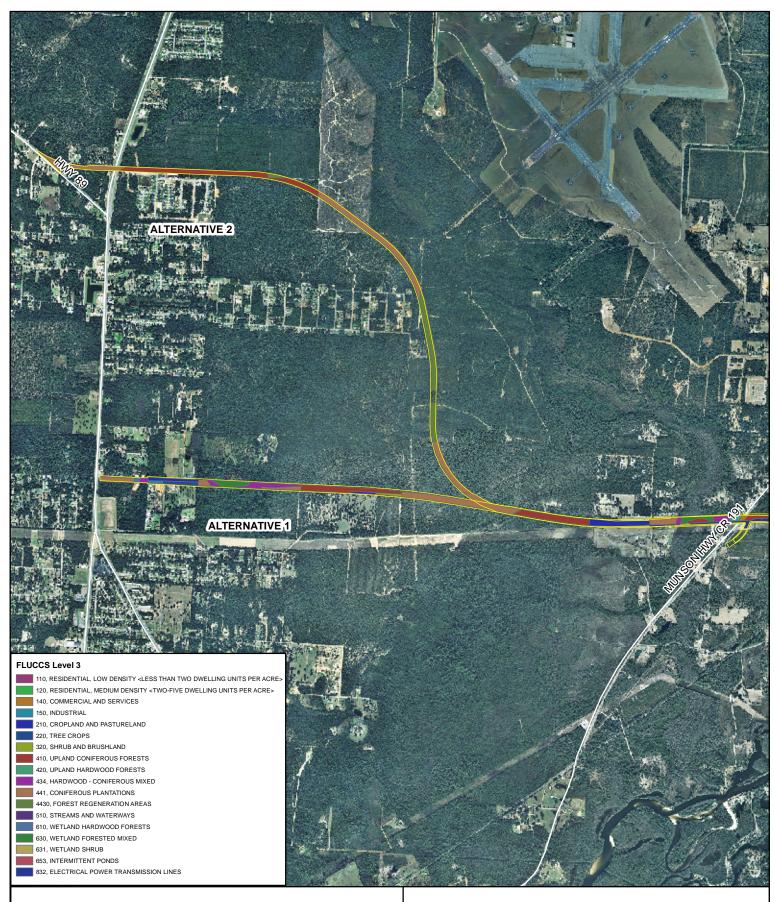
1:18,000 2010 True Color Aerial

0 750 1,500 3,000 4,500 Feet

FLUCCS Map 1

SR 87 Connector PD&E





Legend:

7501,500

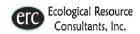


3,000

4,500 ____Feet



FLUCCS Map 2 SR 87 Connector PD&E





UMAM Polygons

1, BOTTOMLAND FOREST, Shading

1A, BOTTOMLAND FOREST, Direct

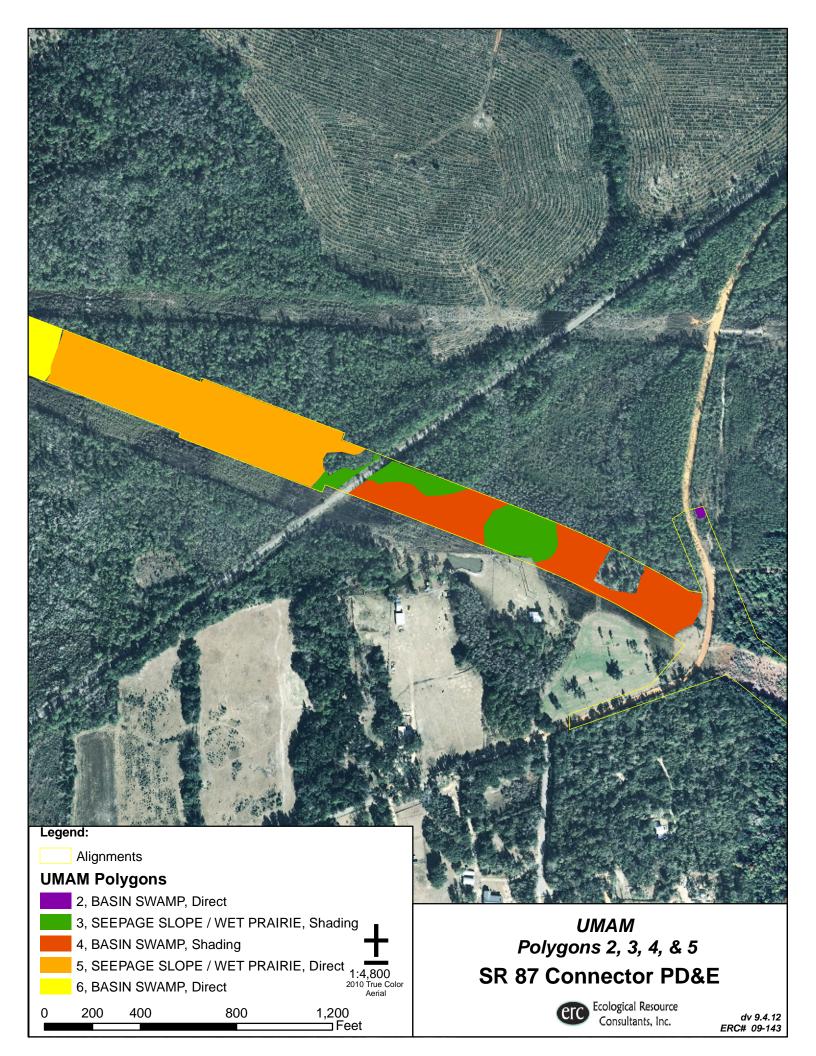
650 1,300 2,600 3,900 Feet

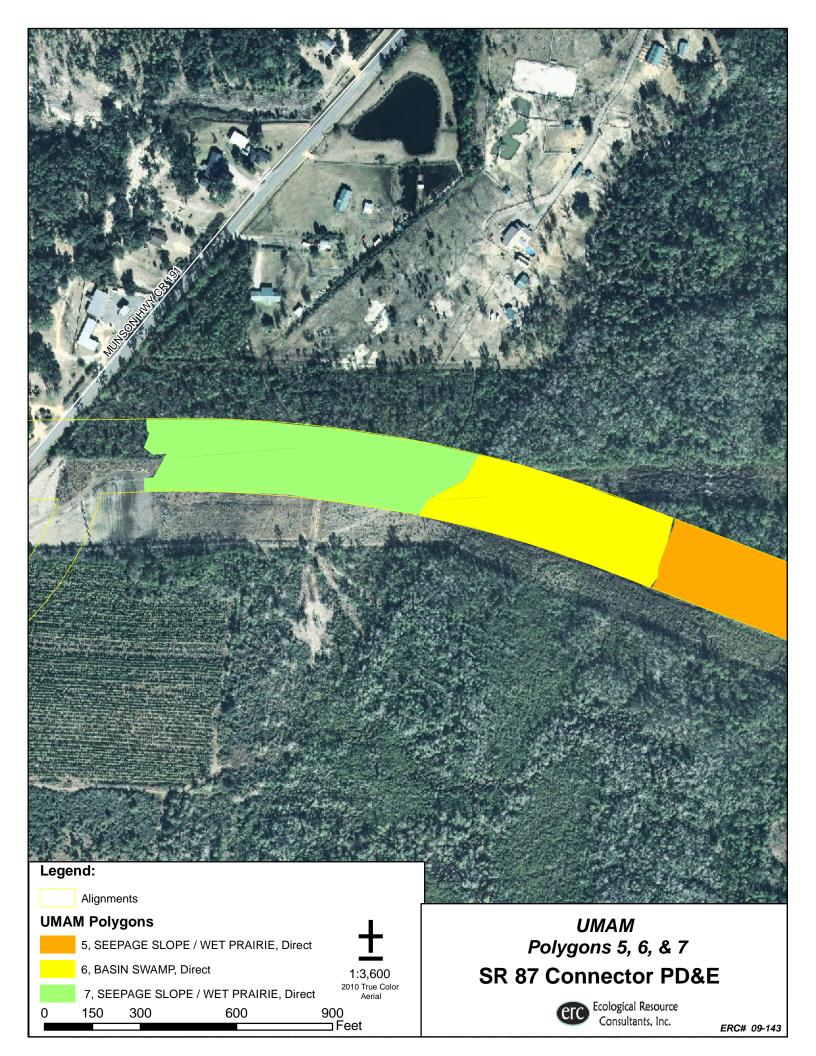


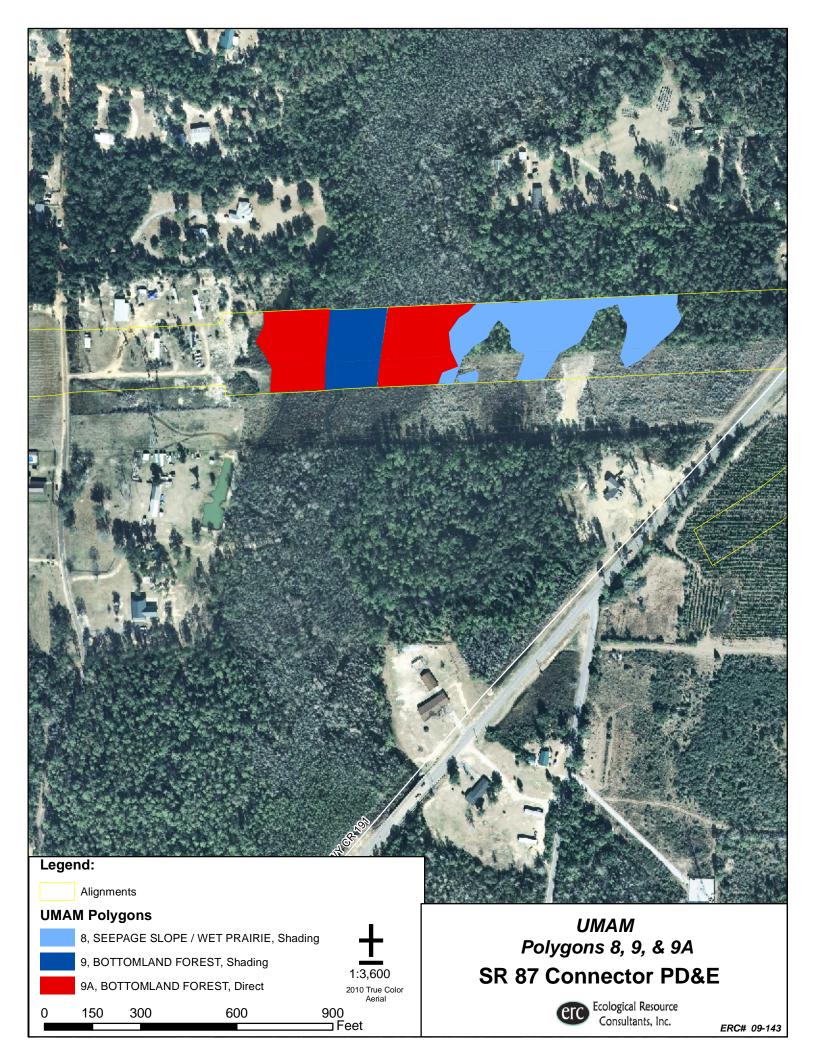
1:15,600 2010 True Color Aerial

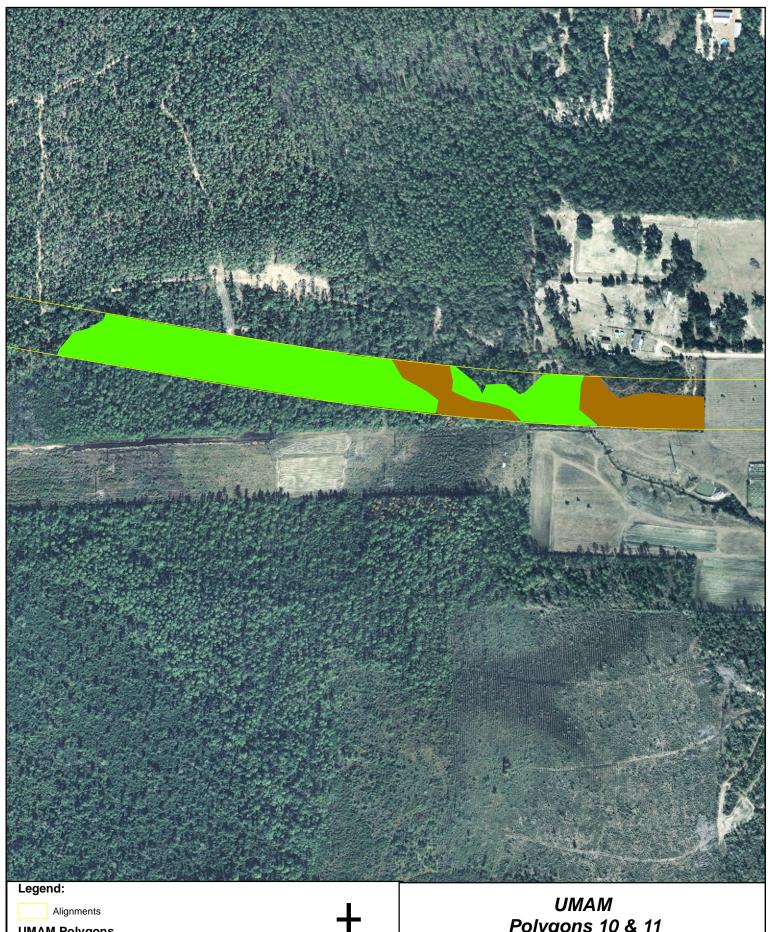
Polygons 1A & 1 SR 87 Connector PD&E











Alignments

UMAM Polygons

10, BASIN SWAMP, Direct

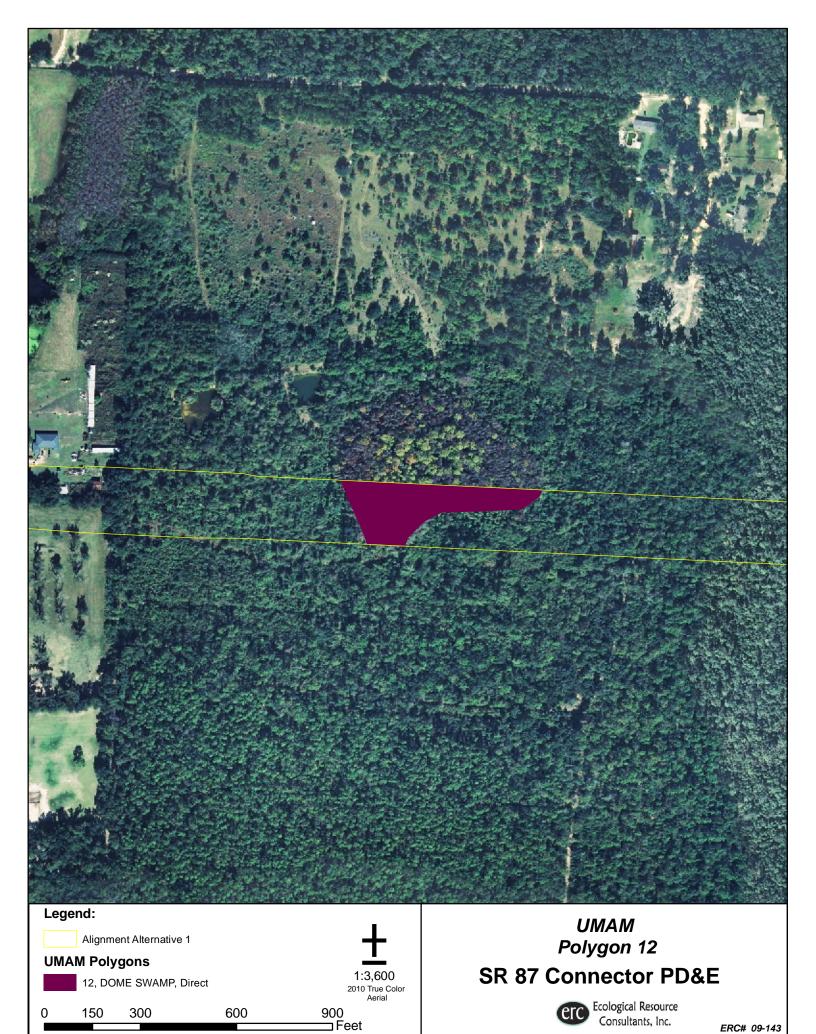
11, SEEPAGE SLOPE / WET PRAIRIE, Direct

0 200 400 800

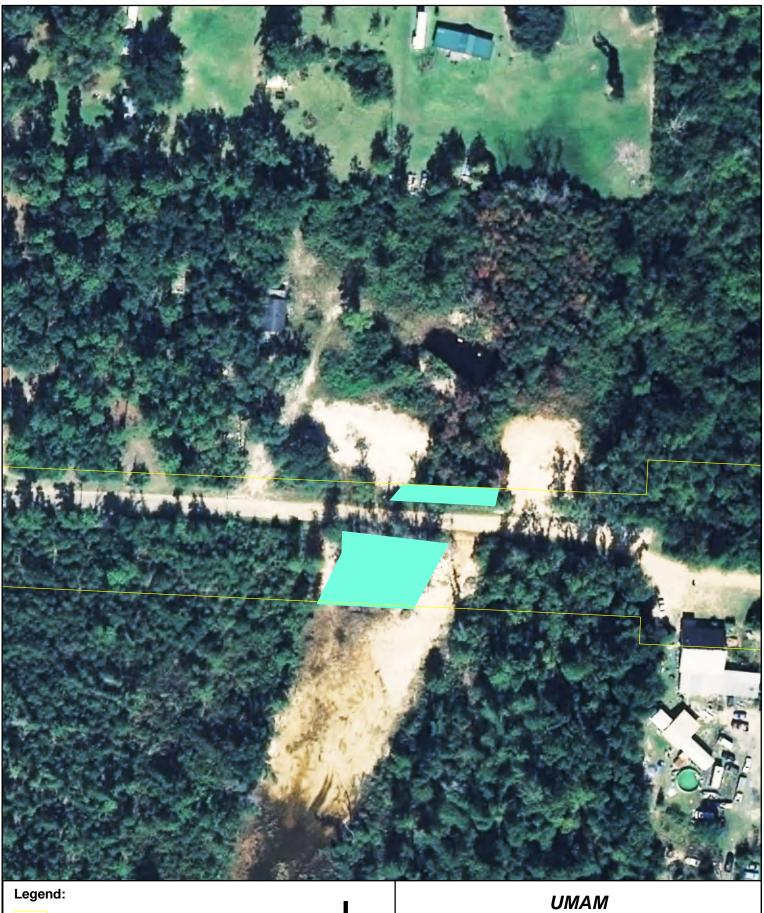


1,200 ___Feet Polygons 10 & 11
SR 87 Connector PD&E





ERC# 09-143



Alignment Alternative 1

UMAM Polygons

13, SEEPAGE SLOPE / WET PRAIRIE, Direct

50 100

200

1:1,200
2010 True Color
Aerial
300
— Feet

Polygon 13 SR 87 Connector PD&E



ERC# 09-143

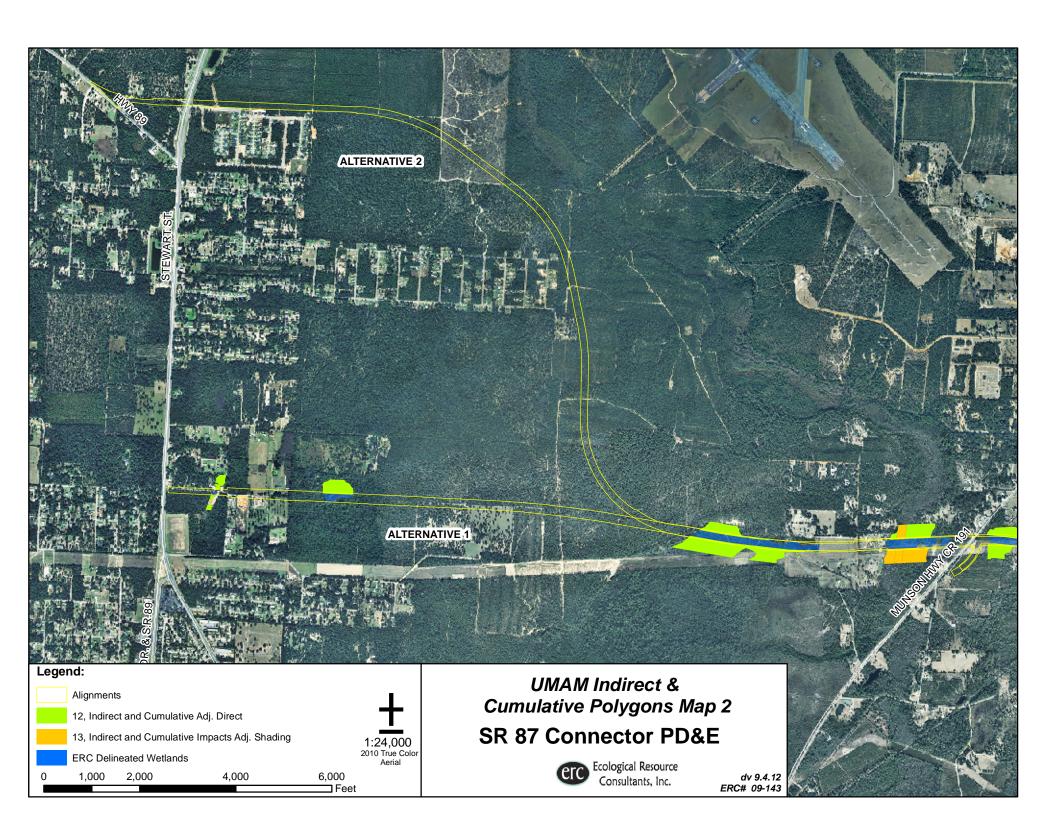


2,000

1,000

500

3,000 ____Feet Ecological Resource
Consultants, Inc.



Site/Project Name	Application Numbe	Per Assessment Area Name or Number			or Number	
SR 87 Connector	PD&E				Poly	gon 1
FLUCCs code	Further classifica	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size
615	FNA	AI - Bottomland Fo	orest		Impact (Shading)	15.13
Basin/Watershed Name/Number	Affected Waterbody (Clas	s)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)			
Blackwater River	Ш				OFW	
Geographic relationship to and hyd	Irologic connection with	wetlands, other s	urface water, upla	nds		
Wetlands are	the floodplain of the Bla	ackwater River, w	hich flows south a	nd wes	st into the Pensacola Ba	ay.
Assessment area description						
The floodplain of the Blackwater R There is limitied development co- currently		homes to the nort	h and institutional	and in	dustrial development to	
Significant nearby features			Uniqueness (collandscape.)	nsideri	ing the relative rarity in	relation to the regional
State Road 90, Santa Rosa County jail, Milton			The Blackwater River is a unique landscape feature within northern Santa Rosa County and this section is an Outstanding Florida Waterway with potential Gulf sturgeon habitat.			
Functions			Mitigation for prev	vious p	permit/other historic use	9
The floodplains are high quality w Pensacola Bay. The river is highly The intact floodplai		over and foraging			N/A	
Anticipated Wildlife Utilization Base that are representative of the assesbe found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Black bear, deer, armadillo, amp invertebrat	hibians, birds, reptiles, s es within the river	small mammals,	observed threatened plants species such as sundews, pitcher plants. There is anticipated utilization by black bear and the the river is listed as critical habitat for the Gulf sturgeon.			
Observed Evidence of Wildlife Utili	zation (List species direc	ctly observed, or o	other signs such a	s track	s, droppings, casings, ı	nests, etc.):
Additional relevant factors:						
This floodplain area is not propose bridged.	d for direct impact. The	re are only minor	impacts, primarily	from s	hading, proposed since	e the area will be
Assessment conducted by:			Assessment date	e(s):		
Dan Van Nostrand			10/1/2011, update February 2013			

Site/Proje	ect Name		Application Number	As	Assessment Area Name or Number		
		nnector PD&E			Polygon 1 -Blackwater River Bottomland		
Impact or	Mitigation		Assessment conducted by:	As	Forest Assessment date:		
	_	(Shading)	Daniel Van Nostra	and	10/1/201	1, update Feb 2013	
			<u> </u>				
	ng Guidance coring of each	Optimal (10)	Moderate(7) Condition is less than	Minin	nal (4)	Not Present (0)	
indicator indica	is based on what e suitable for the etland or surface er assessed	Condition is optimal and full supports wetland/surface water functions		wetland/su	l of support of urface water ctions	Condition is insufficier provide wetland/surfa water functions	
	or Wit	runs adjacent to the power some erosion and rutting is with	y intact on the south side of the line ROW. The ROW area had present. There are currently a bridge will reduce future neg	ve been cleared no impediments	l of canopy and s to wildlife spec	subcanopy vegetation cies and spanning this a	and
` '	(b)Water Environment in/a for uplands) or wit 9	regime. The floodplain v prevent erosion. The w floodplain vegetation intac bridge to collect untreate	ve excellent water quality, appr wetlands adjacent to the river p ater flow in the river is current et to continue to stabilize the so ed stormwater and convey it to significantly impact	provide adequat ly unobstructed. pil surface. The potreatment pond	te water filtration The use of a learner will also be so	n and stabilize the soil to bridge will help keep the stormwater controls on t	to e the
1.	(c)Community structon Vegetation and/or Senthic Community or wit	The floodplain area has a disturbed by tree falls, which been cleared and maintain the groundcover. The deve	a high diversity of canopy and th typically occurs after storm of led as a powerline ROW. ERO lopment plan will take the thre be minimized to the max	events, and the C located severa atened species	northern portio al threatened/er locations into a	n of the floodplain areandangered plant species	has s in
	•	-					
	um of above scores/30	(if If preservation as mitig	gation,	Fo	r impact assess	sment areas	
	lands, divide by 20)	Preservation adjustme	ent factor =				
current or w/o pre	1 -	Adjusted mitigation de		FL = del	lta x acres = 2.5	52	
0.93	0.7			<u> </u>			
		If mitigation			10. 0	<u> </u>	
De	Ita = [with-current]	Time lag (t-factor) =		For	mitigation asse	ssment areas	

RFG = delta/(t-factor x risk) =

Risk factor =

Site/Project Name	Application Numbe	ber Assessment Area Name or Number			or Number		
SR 87 Connector	PD&E				Polyg	gon 1A	
FLUCCs code	Further classifica	tion (optional)		Impact	t or Mitigation Site?	Assessment Area Size	
615	FNA	AI - Bottomland Fo	orest		Impact (Direct) 2.95		
Basin/Watershed Name/Number	Affected Waterbody (Clas	s)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)				
Blackwater River	Ш			OFW			
Geographic relationship to and hyd	rologic connection with	wetlands, other s	urface water, upla	nds			
	the floodplain of the Bla	ackwater River, w	hich flows south a	nd wes	st into the Pensacola B	ау.	
Assessment area description							
The floodplain of the Blackwater R There is limitied development cor currently		homes to the nort	h and institutional	and in	dustrial development to		
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)				
State Road 90, Santa Rosa County jail, Milton			The Blackwater River is a unique landscape feature within northern Santa Rosa County and this section is an Outstanding Florida Waterway with potential Gulf sturgeon habitat.				
Functions			Mitigation for prev	vious p	permit/other historic use	9	
The floodplains are high quality w Pensacola Bay. The river is highly The intact floodplai		over and foraging			N/A		
Anticipated Wildlife Utilization Base that are representative of the assesbe found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, deer, armadillo, amp invertebrat	hibians, birds, reptiles, s es within the river	small mammals,	observed threatened plants species such as sundews, pitcher plants. There is anticipated utilization by black bear and the the river is listed as critical habitat for the Gufl sturgeon.				
Observed Evidence of Wildlife Utilize	zation (List species dire	ctly observed, or o	other signs such a	s track	s, droppings, casings,	nests, etc.):	
Additional relevant factors:							
This portion of the floodplain is pro	posed for direct impact f	for the bridge app	roacht.				
Assessment conducted by:			Assessment date	e(s):			
Dan Van Nostrand			4/1/2012, update	Feb 2	013		

		(See Section	18 62-345.500 and .600,	r.A.C.)			
Site/Project Name	R 87 Connec	ctor PD&E	Application Number			a Name or Number ackwater River Bottomland	
Impact or Mitigation		0.011 0.02	Assessment conducted by:		Forest Assessment date:		
impact of imagason	Impact (D	Direct)	Daniel Van Nostrand		4/1/2012, update February 2013		
Scoring Guidance		Optimal (10)	Moderate(7)	Mi	nimal (4)	Not Present (0)	
The scoring of eac indicator is based on would be suitable for type of wetland or sur water assessed	what the	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions Condition is insuff provide wetland/swater function			
.500(6)(a) Locati Landscape Su w/o pres or current 9		runs adjacent to the powerling some erosion and rutting is	intact on the south side of the ne ROW. The ROW area hav present. There are currently ox culvert will be used to facili mammals throug	e been clear no impedim te wildlife mo	red of canopy and ents to wildlife spe ovement of amphi	subcanopy vegetation an ecies. This polygon will be	
.500(6)(b)Water En (n/a for uplar w/o pres or current		regime. The floodplain we prevent erosion. The water	e excellent water quality, appretlands adjacent to the river proflow in the river is currently uts will be used to maintain pre	rovide adeque nobstructed.	uate water filtration. This polygon is p	n and stabilize the soil to proposed for direct impact	
.500(6)(c)Communit 1. Vegetation a 2. Benthic Community w/o pres or current 9	and/or	disturbed by tree falls, which been cleared and maintained	high diversity of canopy and so typically occurs after storm e and as a powerline ROW. ERC opment plan will take the threat be minimized to the maxi	events, and to located severatened speci	he northern portio eral threatened/er es locations into a	n of the floodplain area handangered plant species ir	
		-					
Score = sum of above s	,	If preservation as mitig	ation,		For impact assess	sment areas	
uplands, divide to current pr w/o pres	with	Preservation adjustmen Adjusted mitigation del		FL =	delta x acres = 2.7	75	
0.93	0.00]					
		If mitigation			or mitigation asso	asment areas	

For mitigation assessment areas

RFG = delta/(t-factor x risk) =

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

Site/Project Name Application Nu			er Assessment Area Name or Number			or Number	
SR 87 Connector	PD&E			Polygon 2		gon 2	
FLUCCs code	Further classifica	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size	
617	F	NAI - Basin Swar	np		Impact (Direct)	0.04	
Basin/Watershed Name/Number	Affected Waterbody (Clas	s)	Special Classification	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)			
Blackwater River	III				N/A		
Geographic relationship to and hyd	Irologic connection with	wetlands, other s	urface water, upla	nds			
This is hydrologically connected	to the adjacent polygon	proposed for sha overland she		Γhese	wetlands connect to the	e Blackwater River via	
Assessment area description							
This basin wetland is fire suppress			subcanopy specie ularly maintained t			oody species that would	
Significant nearby features			Uniqueness (collandscape.)	nsider	ing the relative rarity in	relation to the regional	
Blackwater Heritage Trail			None				
Functions			Mitigation for prev	vious p	permit/other historic use)	
This wetlands provides water filtra fo	tion, water retention, for r wildlife.	aging and habitat	N/A				
Anticipated Wildlife Utilization Base that are representative of the asset be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, deer, armadillo, amp invertebrat	hibians, birds, reptiles, s es within the river	small mammals,	observed threatened plans species such as sundews, pitcher plants. There is anticipated utilization by black bear and the river is listed as critical habitat for the Gulf sturgeon.				
Observed Evidence of Wildlife Utili	zation (List species direc	ctly observed, or o	other signs such a	s track	s, droppings, casings,	nests, etc.):	
Additional relevant factors:							
none							
Assessment conducted by:			Assessment date	(s):			
Dan Van Nostrand			Oct-11				

	(000 0000.					
Site/Project Name		Application Number	Asse	Assessment Area Name or Number		
SR 87 Conne	ctor PD&E			Polygon 2 - Basin Swamp		
Impact or Mitigation		Assessment conducted by:	Asse	Assessment date:		
Impact (D	Direct)	Daniel Van Nostrand		Oct-11		
Scoring Guidance	Optimal (10)	Moderate(7)	Minima	N (4)	Not Present	(0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than	Minimal level o wetland/surfi functio	of support of ace water	Condition is insuff provide wetland/s water functio	ficient to surface
.500(6)(a) Location and Landscape Support w/o pres or current with 9		ated wetland that has unlimite that it would provide in optima the wildlife utilization o	I condition. The t	fire suppresse		
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	wetland lacks community z	ate hydrophytic vegetation an onation because the fire regin coppice. There is no evidence	ne is not adequat	te to maintain	the subcanopy and	d shrub
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 8 0	The canopy of this wetland	d is appropriate; however the suppressed shrub			e but is not due to th	he fire
Score = sum of above scores/30 (if uplands, divide by 20) current pr w/o pres with 0.87 0.00	If preservation as mitigation adjustment Adjusted mitigation del	nt factor =		mpact assess		
Delta = [with-current]	If mitigation Time lag (t-factor) =		For m	itigation asses	ssment areas	

RFG = delta/(t-factor x risk) =

Risk factor =

Site/Project Name Application N			per Assessment Area Name or Number			or Number	
SR 87 Connector	PD&E		Polygon 3		gon 3		
FLUCCs code	Further classificat	tion (optional)		Impaci	t or Mitigation Site?	Assessment Area Size	
643	Seep	page Slope / Wet F	Prairie		Impact (Direct)	2.02	
Basin/Watershed Name/Number	Affected Waterbody (Clas	is)	Special Classification	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)			
Blackwater River	III		N/A				
Geographic relationship to and hyd	rologic connection with	wetlands, other s	urface water, upla	ınds			
This seepage slope/wet prairie (se		eper basin swamp River and eventu				n and west towards the	
Assessment area description							
The ss/wp is fire suppressed and h		oine and bay trees rowth of a diverse				e open canopy that have	
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)				
Blackwater Heritage Trail, Frosted Flatwoods Salamander Critical Habita Unit RFS2 Subunit A			None				
Functions			Mitigation for prev	vious p	permit/other historic use	}	
This wetlands provides water filtrat for	tion, water retention, for r wildlife.	aging and habitat	nt N/A				
Anticipated Wildlife Utilization Base that are representative of the asses be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, deer, armadillo, ampl invertebrate	hibians, birds, reptiles, s es within the river	small mammals,	observed threatened plans species such as sundews, pitcher plants. There is anticipated utilization by black bear and the river is listed as critical habitat for the Gulf sturgeon. Further, there is an historic Flatwoods salamander with critical habitat in the vicinity of this wetland.				
Observed Evidence of Wildlife Utiliz	zation (List species dire	ctly observed, or	other signs such a	is tracl	ks, droppings, casings,	nests, etc.):	
Additional relevant factors:							
Located within Flatwoods Salaman	der critical habitat unit.						
Assessment conducted by:			Assessment date	(s):			
Dan Van Nostrand		l	Oct-11				

Site/Project Name			Application Number	Assessment A	Area Name or Number		
•	SR 87 Connec	ctor PD&E	7 7 7		Polygon 3 - SS/WP		
Impact or Mitigation			Assessment conducted by:	Assessment of			
	Impact (Sh	ading)	Daniel Van Nostra	nd	Oct-11		
O O - i d		Outin -1 (40)	M - d - ::-4- (7)	Mainting at (A)	Not Decorate (0)		
Scoring Guidance The scoring of ea		Optimal (10)	Moderate(7) Condition is less than	Minimal (4)	Not Present (0)		
indicator is based on	l l	Condition is optimal and fully		Minimal level of support	of Condition is insufficient to		
would be suitable fo	l l	supports wetland/surface	maintain most	wetland/surface water			
type of wetland or su water assessed		water functions	wetland/surface water functions	functions	water functions		
.500(6)(a) Loca							
Landscape So w/o pres or current		There is little developme fragmented and still provid	ent surrounding this polygon ses water filtration and retention water River. This wetland pol	so access to wildlife is not I on benefits to downstream	receiving waterways. such as		
.500(6)(b)Water Ei (n/a for upla v/o pres or current 8		wetland lacks community z strata woody species as c There are hydric soils prese	ropriate hydrophytic vegetation and appears to support the appropriate hydroperiod. ity zonation because the fire regime is not adequate to maintain the subcanopy and s as coppice. There is no evidence of siltation in this wetland from surrounding land us resent. This area is proposed for direct impact by Corridor 1 or Corridor 2. a bridge of the thing area which will prevent damming and subsequent ponding of water, which would the wetlands outside of the corridor areas.				
<u> </u>							
.500(6)(c)Commun 1. Vegetation 2. Benthic Com	and/or	wet prairie; however, ther Typically, fires would manag a diverse pyrogenic herbace tree falls and powerline endangered plant specie	e is substantial groundcover these wetlands creating an	vegetation including wiregr open canopy and sub-can ately 20% of this wetland s had the greatest diversity for a shading impact by eith	opy and encouraging growth o ystem has been opened up by and contained threatened / ner Corridor 1 or Corridor 2.		
v/o pres or	with			shrub layer is removed.			
current		1					
7	6						
Score = sum of above	•	If preservation as mitig	ation,	For impact as:	sessment areas		
uplands, divide	by 20)	Preservation adjustmen	nt factor =				
current or w/o pres	with	<u> </u>		FL = delta x acres =	: 0.13		
0.80	0.73	Adjusted mitigation del	ta =				
<u>I</u>		<u> </u>					
		If mitigation		For mitigation a	ssessment areas		
Delta = [with-o	current]	Time lag (t-factor) =					
0.07		Risk factor =		RFG = delta/(t-facto	or x risk) =		

Site/Project Name Application Nun		Application Number	er Assessment Area Name or Number			or Number
SR 87 Connector	PD&E			Polygon 4		gon 4
FLUCCs code	Further classifica	ition (optional)		Impact or Mitigation Site? Assessi		Assessment Area Size
617		Basin Swamp			Impact (Direct)	4.15
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classification	on (i.e.C	DFW, AP, other local/state/federal	designation of importance)
Blackwater River	III				N/A	
Geographic relationship to and hyd	drologic connection with	wetlands, other s	surface water, upla	ınds		
This is an interior, deeper wetland			ge slope / wet prain overland sheetflo		ne wetlands convey wa	ter to the south towards
Assessment area description						
This basin wetland is fire suppre			and subcanopy sp regularly maintain		•	of woody species that
Significant nearby features			Uniqueness (co landscape.)	nsider	ing the relative rarity in	relation to the regional
Blackwater Heritage Trail, Froste Unit RF	d Flatwoods Salamande FS2 Subunit A	er Critical Habitat			None	
Functions			Mitigation for pre	vious p	permit/other historic use	е
This wetlands provides water filtra fo	tion, water retention, for r wildlife.	raging and habitat	t		N/A	
Anticipated Wildlife Utilization Base that are representative of the asse be found)				T, SS	by Listed Species (List s C), type of use, and into	
Black bear, deer, armadillo, amp invertebrat	hibians, birds, reptiles, and the siver	small mammals,	There is anticipa critical habitat	ted uti		
Observed Evidence of Wildlife Utili	zation (List species dire	ectly observed, or	other signs such a	s trac	ks, droppings, casings,	nests, etc.):
Additional relevant factors:						
none						
Assessment conducted by:			Assessment date	e(s):		
Dan Van Nostrand			Oct-11			

		I				
Site/Project Name		Application Number		Assessment Area Name or Number		
SR 87 Conne	ctor PD&E			Polygon	n 4 - Basin Swamp	1
Impact or Mitigation		Assessment conducted by:	F	Assessment date:	:	
Impact (Si	nading)	Daniel Van Nostrar	nd		Oct-11	
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	Min	imal (4)	Not Present	t (0)
indicator is based on what	Condition is optimal and fully	optimal, but sufficient to	Minimal lev	el of support of	Condition is insu	fficient to
would be suitable for the	supports wetland/surface	maintain most	1	surface water	provide wetland	/surface
type of wetland or surface	water functions	wetland/surface water	fur	nctions	water functi	ons
water assessed		functions				
.500(6)(a) Location and Landscape Support w/o pres or	There is no limit to wildlife util There are no impediments	ered by adjacent seepage slope lization and the wetland provid downstream of this polygon ar s proposed for a shading by eit maintained by usi	les optimal fur nd water flows ther Corridor 1	nction to downstros via overland she 1 or Corridor 2. F	eam aquatic environments	onments. kwater
current with						
9 8						
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	wetland lacks community zo strata woody species as co There are hydric soils pres	ate hydrophytic vegetation and onation because the fire regim oppice. There is no evidence ent. This area is proposed for y corridors 1 and 2, which will wetla	e is not adeque of siltation in direct impact help to mainta	uate to maintain t this wetland from t by Corridor 1 or	the subcanopy and surrounding land Corridor 2. This w	d shrub uses. vetland
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 9 6	comprised primarily of m beakrush, yellow-eyed gras	I is appropriate with a mix of cynyrtle-leaf holly and large titi. Tes, hatpins, and pitcher plants opy may be impacted by the br	The groundco (including par	ver is extremely or rot pitcher plants	diverse with wiregr and white-topped	ass, pitcher
	•					
Score = sum of above scores/30 (if	If preservation as mitiga	ation,	F	or impact assess	sment areas	
uplands, divide by 20)		•				
current	Preservation adjustmer	nt factor =	FI = d	elta x acres = 0.6	s9	
pr w/o pres with	Adjusted mitigation delt	ra =	' - '	J.M A 40165 - 0.0	. ~	
0.90 0.73			<u> </u>			l
	If mitigation		r			i
D. II	1		Fo	or mitigation asses	ssment areas	
Delta = [with-current]	Time lag (t-factor) =		550	1.10.70.5	. 17	
0.17	Risk factor =		RFG =	delta/(t-factor x r	risk) =	

Site/Project Name Application No.			er Assessment Area Name or Number			or Number
SR 87 Connector I	PD&E			Polygon 5		gon 5
FLUCCs code	Further classification	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size
643	Seep	page Slope / Wet F	Prairie		Impact (Direct)	6.35
Basin/Watershed Name/Number	Affected Waterbody (Clas	is)	Special Classification	on (i.e.C	DFW, AP, other local/state/federal	designation of importance)
Blackwater River	III				N/A	
Geographic relationship to and hyd	rologic connection with	wetlands, other s	urface water, upla	ınds		
This seepage slope/wet prairie (se			wetland. The ger			n and west towards the
Assessment area description						
	The ss/wp is fire suppre	essed and has a c	dense canopy of p	ine an	d bay trees.	
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)			
Blackwater Heritage Trail, Frosted Flatwoods Salamander Critical Habita Unit RFS2 Subunit A			None			
Functions			Mitigation for prev	vious p	permit/other historic use	÷
This wetlands provides water filtrati	tion, water retention, for wildlife.	aging and habitat	nt N/A			
Anticipated Wildlife Utilization Base that are representative of the asses be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Black bear, deer, armadillo, amph invertebrate	hibians, birds, reptiles, s es within the river	small mammals,	observed threatened plans species such as sundews, pitcher plants. There is anticipated utilization by black bear and the river is listed as critical habitat for the Gulf sturgeon. Further, there is an historic Flatwoods salamander with critical habitat in the vicinity of this wetland.			
Observed Evidence of Wildlife Utiliz	zation (List species dire	ctly observed, or	other signs such a	s trac	ks, droppings, casings,	nests, etc.):
Additional relevant factors:						
Located within Flatwoods Salamand	der critical habitat unit.					
Assessment conducted by:			Assessment date	(s):		
Dan Van Nostrand		l	10/1/2011, update	e Febr	ruary 2013	

		Application Number	Assessment Are	a Name or Number
SR 87 Conne	ctor PD&E		Pol	ygon 5 - SS/WP
mpact or Mitigation		Assessment conducted by:	Assessment date	e:
Impact (D	virect)	Daniel Van Nostrai	nd 10/1/2011,	update February 2013
Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each ndicator is based on what would be suitable for the ype of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions
.500(6)(a) Location and Landscape Support o pres or urrent with 9	limitation to wildlife moveme	adjacent to undeveloped land ent to and from this polygon; h is wetland is connected to the	owever, Munson Highway is	located in close proximity t
.500(6)(b)Water Environment (n/a for uplands) fo pres or current with 8	wetland lacks community z strata woody species as c There are hydric soils pre- elevated roadways will be p	ate hydrophytic vegetation an onation because the fire regin oppice. There is no evidence sent. This area is proposed foolaced at appropriate sections ent ponding of water, which w	ne is not adequate to maintain of siltation in this wetland from or direct impact by Corridor 1 of this or the adjacent basin	n the subcanopy and shrub im surrounding land uses. or Corridor 2. Culverts or swamp polygon to prevent
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community /o pres or current with	wet prairie. The dense cand vegetation. Typically, f	as approximately 80-100 trees by and fire-suppressed shrub fires would manage these wet verse pyrogenic herbaceous g by either Corrido	layer have shaded out the ty lands creating an open canop roundcover. This polygon is	pically diverse groundcovery oy and sub-canopy and
ı l				
8 0 Score = sum of above scores/30 (if uplands, divide by 20)	If preservation as mitiga	ation,	For impact asses	ssment areas

RFG = delta/(t-factor x risk) =

Delta = [with-current]

0.83

Time lag (t-factor) =

Risk factor =

Site/Project Name Application Numb			er Assessment Area Name or Number			or Number
SR 87 Connector	PD&E			Polygon 6		
FLUCCs code	Further classifica	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size
617		Basin Swamp			Impact (Direct)	3.34
Basin/Watershed Name/Number	Affected Waterbody (Clas	s)	Special Classification	on (i.e.C	FW, AP, other local/state/federal	designation of importance)
Blackwater River	III				N/A	
Geographic relationship to and hyc	Irologic connection with	wetlands, other s	urface water, upla	nds		
This is an interior, deeper wetland			e slope / wet prair overland sheetflov		e wetlands convey wat	er to the south towards
Assessment area description						
This basin wetland is fire suppress typically be in coppice if file						
Significant nearby features			Uniqueness (collandscape.)	nsider	ing the relative rarity in	relation to the regional
Blackwater Heritage Trail, Froste Unit RFS2 Subunit	d Flatwoods Salamande t A, and Munson Highwa		None			
Functions			Mitigation for prev	vious p	permit/other historic use)
This wetlands provides water filtra fo	tion, water retention, for r wildlife.	aging and habitat	N/A			
Anticipated Wildlife Utilization Base that are representative of the asset be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Black bear, deer, armadillo, amp invertebrat	hibians, birds, reptiles, s es within the river	small mammals,	observed threatened plans species such as sundews, pitcher plants. There is anticipated utilization by black bear and the river is listed as critical habitat for the Gulf sturgeon. Further, there is an historic Flatwoods salamander with critical habitat in the vicinity of this wetland.			
Observed Evidence of Wildlife Utili	zation (List species dire	ctly observed, or o	other signs such a	s track	s, droppings, casings, i	nests, etc.):
Additional relevant factors:						
none						
Assessment conducted by:			Assessment date	(s):		
Dan Van Nostrand			10/1/2011, update February 2013			

	(See Section	ns 62-345.500 and .600,	F.A.C.)				
Site/Project Name		Application Number	Assessment Ar	ea Name or Number			
SR 87 Conne	ector PD&E		Polygon 6 - Basin Swamp				
Impact or Mitigation		Assessment conducted by:	Assessment da	te:			
Impact (Direct)	Daniel Van Nostra	nd 10/1/201	I, update February 2013			
Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)			
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support o wetland/surface water functions	f Condition is insufficient to provide wetland/surface water functions			
.500(6)(a) Location and Landscape Support //o pres or current with 0	boundary. There are partice habitat value has been slight this polygon and water flow	ouffered by adjacent seepage al limitations to wildlife utilizati ntly altered by the powerline F vs via overland sheet flow to t r 1 or Corridor 2. Flow charac road	on due to the proximity of re COW; however, there are no he Blackwater River an OFV teristics will be maintained u	sidential development. The impediments downstream of V. This area is proposed for			
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8 0	wetland lacks community z strata woody species as o There are hydric soils pre elevated roadways will be damming and subsequ	wetland has appropriate hydrophytic vegetation and appears to support the appropriate hydroperiod. d lacks community zonation because the fire regime is not adequate to maintain the subcanopy and a woody species as coppice. There is no evidence of siltation in this wetland from surrounding land use are hydric soils present. This area is proposed for direct impact by Corridor 1 or Corridor 2. Culvertled roadways will be placed at appropriate sections of this or the adjacent basin swamp polygon to promiting and subsequent ponding of water, which would alter the wetlands outside of the corridor areas approximately 1/3 of the this polygon has been disturbed as a powerline ROW.					
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community v/o pres or current with 7	The canopy within the nor polygon area is maintair	n-disturbed portion of this poly ned as a powerline easement here is rutting within the powe	and there is no canopy due	to continual maintenance.			
Score = sum of above scores/30 (i uplands, divide by 20) current or w/o pres with 0.77 0	f If preservation as mitig Preservation adjustme Adjusted mitigation del	nt factor =	For impact asse				
Delta = [with-current]	If mitigation Time lag (t-factor) =		For mitigation as:	sessment areas			

RFG = delta/(t-factor x risk) =

Risk factor =

Site/Project Name		Application Numbe	r	As	Assessment Area Name or Number			
SR 87 Connector	PD&E				Poly	gon 7		
FLUCCs code	Further classifica	tion (optional)		Impact or	Mitigation Site?	Assessment Area Size		
643	Seep	age Slope / Wet F	Prairie	Impact (Direct) 4.55				
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classification (i.e.OFW, AP, other local/state/federal designation of impor					
Blackwater River	III				N/A			
Geographic relationship to and hyd	- Irologic connection with	wetlands, other s	urface water, upla	ands				
This polygon is adjacent to reside excavated throug	ential development, Mur gh the wetlands. Water							
Assessment area description								
This SS/WP has been affected by the outflow of the water; he								
Significant nearby features			Uniqueness (co landscape.)	nsidering	the relative rarity in	relation to the regional		
Blackwater Heritage Trail, Frosted Unit RFS2 Subunit	d Flatwoods Salamande : A, and Munson Highwa		None					
Functions			Mitigation for pre	vious per	mit/other historic use	е		
This wetlands provides water filtra for	tion, water retention, for r wildlife.	aging and habitat			N/A			
Anticipated Wildlife Utilization Base that are representative of the asset be found)				T, SSC),	Listed Species (List stype of use, and into			
Black bear, deer, armadillo, amp invertebrate	hibians, birds, reptiles, ses within the river	small mammals,	observed threatened plans species such as sundews, pitcher plants. There is anticipated utilization by black bear and the river is listed as critical habitat for the Gulf sturgeon. Further, there is an historic Flatwoods salamander with critical habitat in the vicinity of this wetland.					
Observed Evidence of Wildlife Utilize	zation (List species dire	ctly observed, or	other signs such a	as tracks,	droppings, casings,	nests, etc.):		
Additional relevant factors:								
none								
Assessment conducted by:			Assessment date	e(s):				
Dan Van Nostrand			10/1/2011, update February 2013					

Site/Project Name		Application Number	P	Assessment Area	Name or Number	
SR 87 Connec			Polygon 7 - Seepage Slope/Wet Prairie			
Impact or Mitigation		Assessment conducted by:	A	Assessment date:		
Impact (Direct)		Daniel Van Nostrand		10/1/2011,	update February 2	:013
Scoring Guidance Optimal (10)						. (0)
The scoring of each	Optimal (10)	Moderate(7) Condition is less than	` '		Not Present	t (U)
indicator is based on what	Condition is optimal and fully	optimal, but sufficient to	Minimal leve	el of support of	Condition is insu	fficient to
would be suitable for the	supports wetland/surface	maintain most		surface water	provide wetland	
type of wetland or surface water assessed	water functions	wetland/surface water functions	tun	nctions	water functi	ions
water assessed		lunctions				
.500(6)(a) Location and Landscape Support w/o pres or	limitation to wildlife moveme	adjacent to undeveloped land t int to and from this polygon; ho s wetland is connected to the	owever, Muns	on Highway is lo	cated in close prox	kimity to
current with						
7 0						
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	wetland lacks community zo strata woody species as c	ate hydrophytic vegetation and onation because the fire regim oppice. There is no evidence s present. This area is propos	e is not adequof siltation in	uate to maintain t this wetland from	the subcanopy and surrounding land	d shrub uses.
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 0	polygon area is maintained	r-disturbed portion of this polyg as a powerline easement and s proposed for a direct impact	there is no ca	anopy due to con	tinual maintenance	
-	-					
Score = sum of above scores/30 (if	If preservation as mitiga	ation.	F	or impact assess	sment areas	1
uplands, divide by 20)	l F		<u> </u>	- Impact assess	omoni areas	ĺ
current	Preservation adjustmer	t factor =	FI = 4	elta x acres = 3.3	84	
pr w/o pres with	Adjusted mitigation delt	a =	- 0	Cita x acres - 3.3	/ -	
0.73 0			<u> </u>			1
•	If mitigation					
	If mitigation		Fo	r mitigation asse	ssment areas	
Delta = [with-current]	Time lag (t-factor) =		550	1.11.77.5		
0.73	Risk factor =		RFG =	delta/(t-factor x i	risk) =	i

Site/Project Name		Application Numbe	r	Assessment Area Name or Number			
SR 87 Connector	PD&E				Polygon 8		
FLUCCs code	Further classifica	tion (optional)		Impact of	or Mitigation Site?	Assessment Area Size	
643	Seep	age Slope / Wet F	Prairie	2.34			
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classificati	ion (i.e.OF\	W, AP, other local/state/federa	designation of importance)	
Blackwater River	III				N/A		
Geographic relationship to and hyd	Irologic connection with	wetlands, other s	urface water, upla	ands			
This polygon is to the west of Mu		ctly borders the flo he floodplain, and				ions to water flow from	
Assessment area description							
This SS/WP is surrounded by undevelope increased pl	d land, but has been partially ant diversity in the groundcov					aring has mimicked fire and	
Significant nearby features			Uniqueness (co landscape.)	nsiderin	ng the relative rarity in	relation to the regional	
Munson High	hway, Clear Creek.		None				
Functions			Mitigation for pre	vious pe	ermit/other historic us	е	
This wetlands provides water filtrat wildlife, a	ion, water retention, for nd creek buffer.	aging,habitat foi	N/A				
Anticipated Wildlife Utilization Base that are representative of the assembe found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, deer, armadillo, amp invertebrat	hibians, birds, reptiles, ses within the river	small mammals,	observed threatened plant species such as sundews, pitcher plants. There is anticipated utilization by black bear				
Observed Evidence of Wildlife Utili	zation (List species dire	ctly observed, or	l other signs such a	as tracks	s, droppings, casings,	nests, etc.):	
Additional relevant factors:							
none							
Assessment conducted by:			Assessment date	e(s):			
Dan Van Nostrand			October 2012, up	odate Fe	ebruary 2013		

Site/Project Name	Application Number	Assessment Area Name or Number				
SR 87 Connec	ctor PD&E			Polygon 8 - Seepage Slope/Wet I		
Impact or Mitigation		Assessment conducted by:	F	Assessment date:		
Impact (D	irect)	Daniel Van Nostrand October 2012, update F			2, update February	2013
Seering Cuidenes	Ontimal (40)	Madayata (7)	Min	ins al (4)	Not Decom	· (0)
Scoring Guidance The scoring of each indicator is based on what	Optimal (10) Condition is optimal and fully	Moderate(7) Condition is less than optimal, but sufficient to		rel of support of	Not Present	
would be suitable for the	supports wetland/surface	maintain most		surface water	provide wetland	
type of wetland or surface	water functions	wetland/surface water	fur	nctions	water functi	ons
water assessed		functions				
.500(6)(a) Location and Landscape Support	Clear Creek. There is no dir is located in close proxin associated with Clear Cree (OFW) and Pensacola Bay.	cent to undeveloped land to the cet limitation to wildlife movernity to the eastern boundary. It is and provides direct water inpose are no barriers to the met for the Clear Creek bridge ap	nent to and from This wetland but to the cree ovement of w	om this polygon; hoorders the flood ek system and evoluter into the cree	however, Munson plain bottomland fo entually Blackwate ek system. This wo	Highway orest or River etland is
w/o pres or	propossa ioi a amost iiiipas	bridg	•	no opon mater po		20
current with	1					
9 0						
.500(6)(b)Water Environment (n/a for uplands) w/o pres or	This wetland has appropriate hydrophytic vegetation and appears to support the appropriate hydroperiod. The wetland lacks community zonation because the fire regime is not adequate to maintain the subcanopy and shrub strata woody species as coppice. There is no evidence of siltation in this wetland from surrounding land uses. There are hydric soils present. This area is proposed for a direct impact by Corridor 1 or Corridor 2.					
current with						
8 0	İ					
.500(6)(c)Community structure 1. Vegetation and/or		n-disturbed portion of this polyg as a powerline easement and				
2. Benthic Community		area is proposed for a direct im				
w/o pres or						
current with						
7 0	1					
, ,						
Score = sum of above scores/30 (if	If preservation as mitiga	ation,	F	or impact assess	sment areas	
uplands, divide by 20) current	Preservation adjustmer	nt factor =	FL = de	elta x acres = 1.8		
0.8 with 0.00	Adjusted mitigation delt	a =				
	J 		_			
	If mitigation		Fo	or mitigation asses	ssment areas	
Delta = [with-current]	Time lag (t-factor) =					
0.80	Risk factor =		RFG =	delta/(t-factor x r	risk) =	

Site/Project Name Application Numl			er Assessment Area Name or Number			or Number
SR 87 Connector	PD&E			Polygon 9		
FLUCCs code	Further classifica	Further classification (optional) Impact or Mitigation Site?			t or Mitigation Site?	Assessment Area Size
615		Bottomland Fores	st		Impact (Shading)	1.08
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classification	on (i.e.O	FW, AP, other local/state/federal	designation of importance)
Blackwater River	III				N/A	
Geographic relationship to and hyd	Irologic connection with	wetlands, other s	urface water, upla	nds		
This polygon includes Clear Cre	ek and the Clear Creek	floodplain and is further down		connec	cted via surface flow to	the Blackwater River
Assessment area description						
This floodplain/bottomland forest is mixture of hardwood evergr						
Significant nearby features			Uniqueness (collandscape.)	nsideri	ing the relative rarity in	relation to the regional
Munson Hig	nhway, Clear Creek		Blackwater Stream (Clear Creek) bisects the floodplain/bottomland forest.			
Functions			Mitigation for prev	vious p	permit/other historic use)
The floodplains are high quality w Pensacola Bay. The creek is l foraging. The intact floodplain	highly utilized by wildlife	for cover and regulate water	N/A			
Anticipated Wildlife Utilization Base					y Listed Species (List s	
that are representative of the asset be found)	ssment area and reason	ably expected to	classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Black bear, deer, armadillo, amp invertebrat	hibians, birds, reptiles, ses within the river	small mammals,	The floodplain/bottomland forest is diverse and contains many state threatened plant species such as sundews, pitcher plants, bluestem, meadow beauty, and yellow-eyed grass. There is anticipated utilization by black bear. Clear Creek is not listed as Critical Habitat for the Gulf sturgeon or the reticulated Flatwoods salamander.			
Observed Evidence of Wildlife Utili	zation (List species dire	ctly observed, or	other signs such a	s track	s, droppings, casings, ı	nests, etc.):
Additional relevant factors:						
none						
Assessment conducted by:			Assessment date	e(s):		
Dan Van Nostrand			9/1/2012, update February 2013			

Site/Project Name		Application Number	As		Name or Number		
SR 87 Conr	ector PD&E				n 9 - Clear Creek		
mpact or Mitigation		Assessment conducted by:	As	Floodplain/Bottomland Forest Assessment date:			
Impact (Shading)	Daniel Van Nostrand		9/1/2012, update February 2013			
·				<u> </u>			
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	Minin	nal (4)	Not Present (0)		
ndicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions		Minimal level of support of wetland/surface water functions		Condition is insufficien provide wetland/surfar water functions		
.500(6)(a) Location and Landscape Support /o pres or urrent with 9	by undeveloped land to the r The wetland directly supports no impediments to water fl	rest is bordered on the west b north, south, and east. There is and maintains the water qua ow between the floodplain and tructed over the floodplain and with bridge c	is little impedim lity, temperatur d the creek. Th l the creek. Th	nent to wildlife r re, and structure nis area is propo	movement into this polyge e of Clear Creek. There osed for a shading impa		
.500(6)(b)Water Environment (n/a for uplands) /o pres or current with	regime. The floodplain we prevent erosion. The wat floodplain vegetation intact	The creek appears to have excellent water quality, appropriate water inputs, and evidence of a typical flood egime. The floodplain wetlands adjacent to the creek provide adequate water filtration and stabilize the soil prevent erosion. The water flow in the creek is currently unobstructed. The use of a bridge will help keep to odplain vegetation intact to continue to stabilize the soil surface. There will also be stormwater controls on bridge to collect untreated stormwater and convey it to treatment ponds. The piling supported bridge will not significantly impact the flow of the river.					
.500(6)(c)Community structur	e						
Vegetation and/or Benthic Community	cleared and maintained as	high diversity of canopy and s a powerline ROW. ERC loca tent plan will take the threaten minimized to the maxim	ted several three	eatened/endanç ations into acco	gered plant species in th		
/o pres or							
current with	_						
8 6							
Score = sum of above scores/30	(if If preservation as mitig	ation,	Fo	r impact assess	sment areas		
uplands, divide by 20)	Preservation adjustmen	nt factor =					
current r w/o pres with	Adjusted mitigation dal	ta =	FL = del	lta x acres = 0.1	18		
0.90 0.73	Adjusted mitigation del	ıa –					
	If mitigation		1				
Delta = [with-current]	Time lag (t-factor) =		For	mitigation asse	ssment areas		
Dena – [with-current]	Time lag (Flactor) -						

RFG = delta/(t-factor x risk) =

Risk factor =

Site/Project Name Application Numb			er Assessment Area Name or Number			or Number	
SR 87 Connector	PD&E				Polygon 9A		
FLUCCs code	Further classifica	ition (optional)		Impact	or Mitigation Site?	Assessment Area Size	
615		Bottomland Fores	st		Impact (Direct)	2.50	
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classification	on (i.e.O	FW, AP, other local/state/federal	designation of importance)	
Blackwater River	III				N/A		
Geographic relationship to and hyd	Irologic connection with	wetlands, other s	urface water, upla	nds			
This polygon includes the Clear C	Creek floodplain and is the	herefore directly c	onnected via surfa	ice flov	v to the Blackwater Riv	er further downstream.	
Assessment area description							
This floodplain/bottomland forest is mixture of hardwood evergr							
Significant nearby features			Uniqueness (collandscape.)	nsideri	ng the relative rarity in	relation to the regional	
Munson Hig	nhway, Clear Creek		Blackwater Stream (Clear Creek) bisects the floodplain/bottomland forest.				
Functions			Mitigation for prev	vious p	ermit/other historic use)	
The floodplains are high quality w Pensacola Bay. The creek is l foraging. The intact floodplain	highly utilized by wildlife	for cover and regulate water	N/A				
Anticipated Wildlife Utilization Base			Anticipated Utiliza	ation b	y Listed Species (List s	species, their legal	
that are representative of the asset be found)	ssment area and reason	nably expected to	classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, deer, armadillo, amp invertebrat	hibians, birds, reptiles, ses within the river	small mammals,	The floodplain/bottomland forest is diverse and contains many state threatened plant species such as sundews, pitcher plants, bluestem, meadow beauty, and yellow-eyed grass. There is anticipated utilization by black bear. Clear Creek is not listed as Critical Habitat for the Gulf sturgeon or the reticulated Flatwoods salamander.				
Observed Evidence of Wildlife Utili	zation (List species dire	ctly observed, or	other signs such a	s track	s, droppings, casings, ı	nests, etc.):	
Additional relevant factors:							
none							
Assessment conducted by:			Assessment date	e(s):			
Dan Van Nostrand			9/1/2012, update February 2013				

Sito/Droi:	act Name			Application Number		Accommont Area	a Name or Number	<u>, </u>
Site/Project Name SR 87 Connector PD&E			Application Number		a Name or Numbel n 9A - Clear Creek			
Impact or Mitigation				A		Floodplain/Bottomland Forest Assessment date:		
		Impact (D	irect)	Daniel Van Nostrar				
Scori	ing Guidance	\neg	Optimal (10)	Moderate(7)	Mi	nimal (4)	Not Present	t (0)
The s	coring of each			Condition is less than				
indicator is based on what would be suitable for the Condition is optimal supports wetland/				optimal, but sufficient to maintain most		evel of support of l/surface water	Condition is insu provide wetland	
							water functi	
wat	er assessed			functions				
	0(6)(a) Locatio andscape Sup or		by undeveloped land to the r The wetland directly supports no impediments to water flo	rest is bordered on the west b north, south, and east. There s and maintains the water qua by between the floodplain and proaches; however, the open	is little impe lity, tempera I the creek.	diment to wildlife rature, and structure. This area is propo	movement into this e of Clear Creek. osed for a direct im	polygon. There are
regime. The floodplain v				e excellent water quality, appr etlands adjacent to the creek p r flow in the creek is currently nize upstream flooding. This f impact for the brid	orovide adec unobstructe loodplain/bo	quate water filtration ed. The use of a bouttomland forest po	on and stabilize the oridge over the ope	e soil to n water
	<u>I</u>							
.500(6)	(c)Community	structure						
Vegetation and/or Enthic Community //o pres or current with			The floodplain area has a high diversity of canopy and subcanopy species. Portions of the polygon have been cleared and maintained as a powerline ROW. ERC located several threatened/endangered plant species in the groundcover. The development plan will take the threatened species locations into account and any impacts will be minimized to the maximum extent practicable. This polygon is proposed for a direct impact for the bridge approaches.					
8		0						
	•	•						
Score = s	sum of above sc	ores/30 (if	If preservation as mitiga	ation,		For impact assess	sment areas	
•	lands, divide by	20)	Preservation adjustmer					
current or w/o pre	ıs.	with			FL =	delta x acres = 2.2	25	
0.90	Ĭ	0.00	Adjusted mitigation del	ta =				
			I		,			İ
	ito = finite	ront ¹	If mitigation		F	or mitigation asse	ssment areas	
De	elta = [with-cur	ıenıj	Time lag (t-factor) =		RFG	= delta/(t-factor x	risk) =	

Risk factor =

Site/Project Name		Application Numbe	lumber Assessment Area Name or Number			or Number
SR 87 Connector	PD&E				Polyg	gon 10
FLUCCs code	Further classifica	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size
617	F	NAI - Basin Swar	np		Impact (Direct)	2.75
Basin/Watershed Name/Number	Affected Waterbody (Clas	s)	Special Classification	on (i.e.O	FW, AP, other local/state/federal	designation of importance)
Blackwater River	III		N/A			
Geographic relationship to and hyd	drologic connection with	wetlands, other s	urface water, upla	nds		
This is an interior, deeper wetland			e slope / wet prair overland sheetflov		e wetlands convey wat	er to the south towards
Assessment area description						
This basin wetland is fire suppress typically be in coppice if fi					-	• .
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)			
None			None			
Functions			Mitigation for prev	vious p	permit/other historic use)
This wetlands provides water filtra fo	ation, water retention, for or wildlife.	aging and habitat			N/A	
Anticipated Wildlife Utilization Base that are representative of the asset be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Black bear, deer, armadillo, amp invertebrat	phibians, birds, reptiles, stes within the river	small mammals,	White topped pitcher plant was observed in this wetland and it is anticipated that other threatened plant species would be present with periodic fire. This area is also most likely used by the black bear population in the vicinity.			
Observed Evidence of Wildlife Utili	zation (List species direc	ctly observed, or o	other signs such a	s track	s, droppings, casings,	nests, etc.):
		None during fie	eld surveys			
Additional relevant factors:						
none						
Assessment conducted by:			Assessment date	e(s):		
Dan Van Nostrand			10/1/2012, update February 2013			

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name		Application Number		Assessment Area	Name or Number	•	
	SR 87 P	D&E			Polygon	10 - Basin Swamp	0
Impact or Mitigation			Assessment conducted by:		Assessment date	:	
	Impact (D	virect)	Daniel Van Nostrand		10/1/2012,	10/1/2012, update February 2013	
0 : 0 : 1	_						. (0)
Scoring Guidance The scoring of each		Optimal (10)	Moderate(7) Condition is less than	Min	nimal (4)	Not Presen	t (0)
indicator is based on wha	at	Condition is optimal and fully	optimal, but sufficient to	Minimal le	vel of support of	Condition is insu	fficient to
would be suitable for the		supports wetland/surface	maintain most	wetland/surface water provide wetland/s			
type of wetland or surfac water assessed	е	water functions	wetland/surface water functions	functions water functions			ions
water assessed			Turictions				
.500(6)(a) Location Landscape Suppo w/o pres or	ort	to the south and agricultura value for wildlife utilization. T wildlife movement to and f	ered by undeveloped land to the lands to the east. Portions of the proximal residential develoirom this polygon. The adjacential develoirom the basin swa alternative 1 or	of this polygo pment and a nt wet prairie imp. This are	on have been clea adjacent agricultur e / seepage slope ea is proposed for	red which decreas al lands somewha has been ditched,	e their t limit the which
current	with						
6	0						
						d shrub owerline here are elevated	
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 1. Vegetation and/or 2. Benthic Community The majority of this basin swamp polygon has been disturbed by clearing either for agricultural operations or powerline ROW maintenance. The cleared portions lack the appropriate canopy, but have divers groundcover to the light penetration to the ground. Typical basin swamps would have diverse canopies and varied groundcing appropriate canopy. This polygon is proposed for direct impact by either alternative 1 or alternative 2						over due ndcover	
		=					
Score = sum of above score	res/30 (if	If preservation as mitiga	ation.		For impact assess	sment areas	
uplands, divide by 2	•	l ·	·	<u> </u>	. or impact assess	Janoin aleas	
current	Preservation adjustment factor = FL = delta x acres = 1.74						
or w/o pres	v/o pres with Adjusted mitigation delta =			7			
0.63	0			<u> </u>			l
		16		,			
		If mitigation] F	or mitigation asse	ssment areas	
Delta = [with-curre	nt]	Time lag (t-factor) =			1.11.77.5		
0.63 RFG = delta/(t-factor x risk) =							

Site/Project Name		Application Numbe	pplication Number Assessment Area Name or Number			or Number	
SR 87 Connector	PD&E				Poly	gon 11	
FLUCCs code	Further classifica	tion (optional)		Impact o	or Mitigation Site?	Assessment Area Size	
643	FNAI - S	eepage Slope / W	et Prairie	ı	Impact (Direct)	8.14	
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classificati	ion (i.e.OFV	N, AP, other local/state/federa	al designation of importance)	
Blackwater River	III				N/A		
Geographic relationship to and hyd	rologic connection with	wetlands, other s	urface water, upla	ands			
The seepage slope / wet prairie dr			ver via overland sl ljacent agricultura		and through a confi	ned ditch that appears to	
Assessment area description							
The ss/wp is fire suppressed and	I has a dense canopy o	of pine and bay tre agricultura		nder has	been maintained as	a powerline ROW and	
Significant nearby features		Uniqueness (co landscape.)	onsiderin	g the relative rarity ir	relation to the regional		
		None					
Functions			Mitigation for pre	vious pe	ermit/other historic us	e	
This wetlands provides water filtrat	tion, water retention, for wildlife.	raging and habitat	t N/A				
Anticipated Wildlife Utilization Base that are representative of the asses be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, deer, armadillo, ampl invertebrate	hibians, birds, reptiles, ses within the river	small mammals,	White topped pitcher plant was observed in this wetland and it is anticipated that other threatened plant species would be present with periodic fire. This area is also most likely used by the black bear population in the vicinity.				
Observed Evidence of Wildlife Utiliz	zation (List species dire	ectly observed, or	other signs such a	as tracks	s, droppings, casings	, nests, etc.):	
		None during fie	ld surveys				
Additional relevant factors:							
none							
Assessment conducted by:			Assessment date	e(s):			
Dan Van Nostrand			10/1/2012, update February 2013				

PART II - Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Γ				1.					
Site/Project Name	00.07.0	D05	Application Number	l ^A		Name or Number			
Incocat on Mitigation	SR 87 P	D&E	Assessment conducted by:		ssessment date	eepage Slope/We	t Prairie		
Impact or Mitigation	Impact (D	Nirect)	Daniel Van Nostrand 10/1/2012, update F.				0013		
	IIIIpaci (L	on ect)	Daniel Vali Nostial	lu	10/1/2012,	update i ebidary z	.013		
Scoring Guidar		Optimal (10)	Moderate(7)	Minii	mal (4)	Not Present	t (0)		
The scoring of e	I	Condition is optimal and fully	Condition is less than optimal, but sufficient to	Minimal leve	el of support of	Condition is insu	fficient to		
would be suitable		supports wetland/surface	maintain most		urface water	provide wetland			
type of wetland or water assesse		water functions	wetland/surface water functions	fund	ctions	water functi	ions		
water assesse	eu		Turictions	TOUGHS .					
.500(6)(a) Loc Landscape w/o pres or current 7		ROW and an agricultural fie due to the agricultural land	cent to undeveloped land to to ld to the south. There is mind . This wetland is connected s nis wetland is proposed for din	or limitation to vocath through v	wildlife moveme wetlands and a d	nt to and from this confined ditch thro	polygon ugh the		
. , . ,	urrent with						nd shrub d uses.		
.500(6)(c)Commi	unity structure								
Vegetatio Benthic Co		polygon area is maintained	The canopy within the non-disturbed portion of this polygon are appropriate; however, approximately 1/2 of the polygon area is maintained as a powerline easement and there is no canopy due to continual maintenance. This area is proposed for a direct impact by either alternative 1 or alternative 2.						
w/o pres or current 7	with 0								
		1	1				İ		
Score = sum of above uplands, divide	•	If preservation as mitig	ation,	Fo	or impact assess	sment areas			
current	• • •	Preservation adjustmen	nt factor =	E1 - 45	elta x acres = 5.9	27			
or w/o pres	with	Adjusted mitigation del	ta =	I'- ae	ла л аогез — Э.S	,,			
0.73	0]		<u> </u>			1		
		If mitigation		Eor	mitigation asse	ssment areas			
Delta = [with	-current]	Time lag (t-factor) =		101	miligation asse	3311611t al 6a3			
RFG = delta/(t-factor x risk) =									

Risk factor =

0.73

Site/Project Name Application Nur		Application Number	lumber Assessment Area Name or Number			or Number	
SR 87 Connector PD&E - A	Iternative 1 only				Poly	gon 12	
FLUCCs code	Further classificat	tion (optional)		Impact	or Mitigation Site?	Assessment Area Size	
630	FI	NAI - Dome Swan	пр		Impact (Direct)	1.43	
Basin/Watershed Name/Number	Affected Waterbody (Class	s)	Special Classification	on (i.e.OF	W, AP, other local/state/federa	designation of importance)	
Blackwater River	III				N/A		
Geographic relationship to and hyd	rologic connection with	wetlands, other su	urface water, uplai	nds			
This	is an isolated wetland s	system that is surr	ounded by well dr	ained sa	andhill uplands.		
Assessment area description							
This dome swamp wetland is fi periodically burned th	re suppressed on the ex nis wetland, the out rim						
Significant nearby features		Uniqueness (collandscape.)	nsiderin	ng the relative rarity in	relation to the regional		
SR 87 North			None				
Functions			Mitigation for pre	vious pe	ermit/other historic use	9	
This wetlands provides water filtrat for	ion, water retention, for wildlife.	aging and habitat	t N/A				
Anticipated Wildlife Utilization Base that are representative of the asses be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, deer, armadillo, ampl invertebrate	nibians, birds, reptiles, s es within the river	small mammals,	No threatened or endangered species were observed in this polygon area, but it is anticipated that a similar plant composition to the other basin wetlands would exist with more frequent fires.				
Observed Evidence of Wildlife Utiliz	zation (List species direc	ctly observed, or o	ther signs such a	s tracks	, droppings, casings,	nests, etc.):	
		None during fie	ald ourses				
		None during ne	survey				
Additional relevant factors:							
none							
Assessment conducted by:			Assessment date	e(s):			
Dan Van Nostrand		10/1/2011, update February 2013					

PART II - Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name		Application Number		Assessment Area	a Name or Number
SR 87 Connector PD&E	E - Alternative 1 only			Polygon 12 - Dome Sw	
Impact or Mitigation		Assessment conducted by:		Assessment date	:
Impact (D	Impact (Direct) Daniel Van Nostrand 10/1/2011, up		update February 2013		
		,	,		
Scoring Guidance	Optimal (10)	Moderate(7)	Mir	nimal (4)	Not Present (0)

	01101 0011110	0.01 1 202	7 ittorridayo i omy			l	iz boillo owali	۱,	
Impact or	Mitigation			Assessment conducted by:		Assessment date):		
		Impact (D	irect)	Daniel Van Nostrar	nd	10/1/2011,	update February 2	2013	
Scorin	ng Guidance		Optimal (10)	Moderate(7)	Mi	nimal (4)	Not Presen	t (0)	
indicator is would be type of we	The scoring of each ndicator is based on what would be suitable for the ype of wetland or surface water assessed Condition is optimal and ful supports wetland/surface water functions			Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	ondition is less than imal, but sufficient to maintain most wetland/surface water functions Condition is provide we water				
,	(6)(a) Locatior ndscape Supp r		provides the functions to suppressed understory slight many breeding amphibiar	olated wetland that has unlimi wildlife and downstream wetla htly limits the wildlife utilization ns and reptiles since there is e n fish. This wetland is propose	inds that it want of this wetlevidence that	ould provide in op and system; howe t it fill with water e	otimal condition. To ever it is suitable he phemerally and de	The fire abitat fo	
9		U							
	(b)Water Envii n/a for uplands		suitable for many species community zonation along t	ppropriate hydrophytic vegetation and appears to support the appropriate hydroperiod species that require ephemeral ponds as a component of their life cycles. The wetland along the ecotone adjacent to the upland because the fire regime is not adequate to and shrub strata woody species as coppice. This wetland is proposed for direct impact alternative 1.					
1. \	c)Community Vegetation an enthic Commi	d/or		s appropriate; however the gr d shrub and sub-canopy. This					
	-								
	ım of above sco	`	If preservation as mitiga	ation,		For impact assess	sment areas]	
upla current or w/o pres 0.87	ands, divide by	Preservation adjustment factor = Adjusted mitigation delta = Preservation adjustment factor = Adjusted mitigation delta =							
0.01									
			If mitigation					1	
D-1	to = [with over		Time log (t factor) =		F	or mitigation asse	ssment areas		

Time lag (t-factor) = Delta = [with-current] 0.87 Risk factor =

RFG = delta/(t-factor x risk) =

Site/Project Name Application Nu		Application Numbe	umber Assessment Area Name or Number			or Number	
SR 87 Connector PD&E - A	Iternative 1 only				Poly	gon 13	
FLUCCs code	Further classificat	tion (optional)		Impact	or Mitigation Site?	Assessment Area Size	
643	Seep	age Slope / Wet F	Prairie		Impact (Direct)	0.25	
Basin/Watershed Name/Number	Affected Waterbody (Class	s)	Special Classification	on (i.e.Ol	FW, AP, other local/state/federal	designation of importance)	
Blackwater River	III				N/A		
Geographic relationship to and hyd	rologic connection with	wetlands, other su	urface water, upla	nds			
This seepage slope / wet prairie p	polygon is bisected by a	dirt road and con	nected under the	road vi	ia a culvert; however, t	he wetland is isolated.	
Assessment area description							
The	ss/wp is fire suppressed	d, has been bisect	ted by a dirt road,	and ha	as been cleared.		
Significant nearby features		Uniqueness (collandscape.)	nsideri	ng the relative rarity in	relation to the regional		
SR		None					
Functions		Mitigation for pre	vious p	permit/other historic use)		
This wetlands provides water filtrat	tion, water retention, for r wildlife.	aging and habitat	N/A				
Anticipated Wildlife Utilization Base that are representative of the asses be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Black bear, deer, armadillo, ampl invertebrate	hibians, birds, reptiles, s es within the river	small mammals,	No T&E plant species were observed within this wetland; however, with appropriate management it is expected that there would be higher species diversity.				
Observed Evidence of Wildlife Utiliz	zation (List species direc	ctly observed, or o	l other signs such a	s track	s, droppings, casings,	nests, etc.):	
		Nana during fi	alal accompany				
		None during fie	eia survey				
Additional relevant factors:							
none							
Assessment conducted by:			Assessment date	e(s):			
Dan Van Nostrand			10/1/2011, update February 2013				

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name		Application Number	Asse	essment Area	Name or Number	
SR 87 Connector PD&E	E - Alternative 1 only		Po	Polygon 13 - Seepage Slope/Wet Prairie		Prairie
Impact or Mitigation		Assessment conducted by:	Assessment conducted by: Assessment date:			
Impact (D	Direct)	Daniel Van Nostrar	Daniel Van Nostrand 10/1/2011, update February 20			013
					N / 5	. (0)
Scoring Guidance The scoring of each	Optimal (10)	Moderate(7) Condition is less than	Minima	1 (4)	Not Present	t (0)
indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	optimal, but sufficient to maintain most wetland/surface water functions	wetland/surface water provide wetland/surf			/surface
.500(6)(a) Location and Landscape Support w/o pres or current with	limitation to wildlife movemen been cut in half by Oaklan	ijacent to undeveloped land ar nt to and from this polygon due d Drive, a dirt road. There is a vithin the wetland. This wetlan	e to the residentia culvert beneath t	l land. This w he road; howe	vetland is isolated ever it has impacte	and has
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with	This wetland has appropriate hydrophytic vegetation and appears to support the appropriate hydroperiod wetland lacks community zonation because the fire regime is not adequate to maintain the subcanopy an strata woody species as coppice. There is no evidence of siltation in this wetland from surrounding land. There are hydric soils present. This area is proposed for a direct impact by alternative1.					d shrub
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 0		i-disturbed portion of this polyg red and there is no canopy du direct impact bye e	e to continual ma	intenance. Th		
Score = sum of above scores/30 (if	If preservation as mitiga	ation,	For in	mpact assessi	ment areas	
uplands, divide by 20) current or w/o pres with 0.63 0	Preservation adjustmer Adjusted mitigation delt		FL = delta	x acres = 0.16	6	
	1		<u>,</u>			
	If mitigation		For mi	itigation asses	ssment areas	
Delta = [with-current]	Time lag (t-factor) =					
0.63 Risk factor = RFG = delta/(t-factor x risk) =				isk) =		

Site/Project Name Application		Application Numbe	lumber Assessment Area Name or Number			or Number	
SR 87 Connector PD&E - A	Iternative 1 only				Polyg	gon 14	
FLUCCs code	Further classificat	tion (optional)			et or Mitigation Site?	Assessment Area Size	
643	Seep	age Slope / Wet F	Prairie		ondary and Cumulative acts adjacent to shading impacts	60.07	
Basin/Watershed Name/Number	Affected Waterbody (Class	s)	Special Classification	on (i.e.C	DFW, AP, other local/state/federal	designation of importance)	
Blackwater River	III				N/A		
Geographic relationship to and hyd	rologic connection with	wetlands, other su	urface water, upla	nds			
Wetlands within this secondary and reticulated Flatwoods salamander of			connect to either t				
Assessment area description							
These wetlands are similar in ha	ibitat quality to impact p	olygons 1, 3, 4, 8, Prairie hab		ands a	reas contain Bottomland	d Hardwood and Wet	
Significant nearby features		Uniqueness (co landscape.)	nsider	ing the relative rarity in	relation to the regional		
Blackwater River, Coldwater C Highway, Blac	oitat, Munson						
Functions Mitigatio				vious	permit/other historic use	3	
Water filtration, sediment stabilizat	ion, wildlife habitat, river	and creek buffer	er N/A				
Anticipated Wildlife Utilization Base that are representative of the asses be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Migratory birds, small-medium-	large mammals, reptiles	s, amphibians	many threatened plant species (sundews, pitcher plants, lily, etc.), Flatwoods salamander, black bear.				
Observed Evidence of Wildlife Utiliz	zation (List species direc	ctly observed, or o	ther signs such a	s track	ks, droppings, casings, r	nests, etc.):	
		None during fie	eid survey				
Additional relevant factors:							
Assessment conducted by:			Assessment date	e(s):			
Daniel Van Nostrand			9/1/2012, update February 2013				

PART II - Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

	(See Section	ns 62-345.500 and .600,	1.A.U.)			
Site/Project Name SR 87 Connec	tor PD&E	Application Number			Name or Number S/C Impacts (sha	
mpact or Mitigation		Assessment conducted by:		Assessment date:		- 3/
Secondary and Cumulati	ve Impacts Shading	Daniel Van Nostrar			pdate February 20	013
Scoring Guidance	Optimal (10)	Moderate(7)	Minimal	(4)	Not Presen	+ (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	ring of each based on what suitable for the land or surface Condition is optimal and fully supports wetland/surface water functions V		Minimal level of support o wetland/surface water functions		Condition is insu provide wetland water functi	fficient t
.500(6)(a) Location and Landscape Support //o pres or current with 9	Blackwater River, Clear Cree	ive wetland polygon is adjacer ek, and the RFS2 Critical Hab the residential land. Due to tl impacts to the location a	itat unit. There is ne minimization of	minor limitation	on to wildlife move	ement to
.500(6)(b)Water Environment (n/a for uplands) //o pres or current with	Due to the minimization of im	npacts by bridging these wetla wetlands outside of the			there will be no in	npacts to
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community //o pres or current with 9 8		ndary and cumulative impacts rever, it is anticipated that the wetland vegetation soon aft	wetlands in these	polygons will		
Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with	If preservation as mitigated Preservation adjustment Adjusted mitigation delt	nt factor =		npact assess		
0.93 0.87	Aujusteu miligalion dell	a –	<u>[</u>			I
•	If mitigation					ı
Delta = [with-current]	Time lag (t-factor) =		For mit	igation asses	ssment areas	
			RFG = delt	a/(t-factor x ri	risk) =	
0.07 Risk factor =					•	l

Site/Project Name Application Nur			Number Assessment Area Name or Number				
SR 87 Connector	PD&E				Poly	gon 15	
FLUCCs code	Further classifica	tion (optional)		Impac	et or Mitigation Site?	Assessment Area Size	
643, 617, & 630	Seepage Slope	e / Wet Prairie, Ba Dome Swamp	sin Swamp, and		condary & Cumulative acent to direct impacts	Alt. 1 = 79.33 & Alt. 2 = 73.94	
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classificati	on (i.e.0	DFW, AP, other local/state/federa	I designation of importance)	
Blackwater River	III				N/A		
Geographic relationship to and hyd	rologic connection with	wetlands, other s	urface water, upla	ands			
Wetlands within this secondary ar wetlands directly con	nd cumulative impact po nect to either the Black						
Assessment area description							
These wetlands are similar in ha		olygons 2, 5, 6, 7, s, basin swamps,			e wetlands areas conta	in seepage slopes/wet	
Significant nearby features		Uniqueness (considering the relative rarity in relation to the regional landscape.)					
SR 87 North, Munson Highway, Bi Critical Habitat, Munson Hi							
Functions			Mitigation for pre	vious	permit/other historic us	е	
Water filtration, sediment stabilizati	on, wildlife habitat, rive	r and creek buffer	er N/A				
Anticipated Wildlife Utilization Base that are representative of the asses be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
Migratory birds, small-medium-	large mammals, reptile	s, amphibians	many threatened plant species (sundews, pitcher plants, lily, etc.) and black bear.				
Observed Evidence of Wildlife Utiliz	zation (List species dire	ctly observed, or	 other signs such a	as trac	ks, droppings, casings,	nests, etc.):	
		None during fie	eld survey				
Additional relevant factors:							
Assessment conducted by:			Assessment date	e(s):			
Daniel Van Nostrand			9/1/2012, update February 2013				

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name			Application Number		Assessment Area Name or Number		
SF	R 87 Connec	ctor PD&E			Polygon 15 - S/C Impacts		
Impact or Mitigation			Assessment conducted by:		Assessment date:		
Secondary and Cumulative Impacts Adjacent to Direct Impact Areas			Daniel Van Nostrand		9/1/2012, update February 2013		
Scoring Guidance		Optimal (10)	Moderate(7)	Min	imal (4)	Not Presen	t (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed		Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal lev	rel of support of surface water nctions	Condition is insu provide wetland water functi	ifficient to
.500(6)(a) Location and Landscape Support w/o pres or current with 8		This secondary and cumulative wetland polygon is adjacent to proposed direct impacts from the proposed corridor alternatives. The new roadway will limit wildlife movement within the general vicinity cause more likelihood of vehicular deaths to wildlife. Further, water flows may be altered due to required water collection and conveyance for roadway features changing inputs downstream.					
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with		Due to the proposed project impacts, flow between wetlands on either side of the proposed corridor will be altered from its current state.					
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 6		There will be only minor impacts to the vegetative structure of the wetlands in the secondary and cumulative impact polygons during construction. Following construction it is anticipated that any disturbed vegetation will regenerate with native wetland vegetation; however, a new roadway introduces a vector for the dispersal of invasive plant species.					
Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with		If preservation as mitiga	ation,	F	or impact assess	sment areas]
		Preservation adjustmer	nt factor =	F1	olto v cores – Alf	4. 10 E1 0 AIA]
		Adjusted mitigation delt		FL = d 2 : 17.2	elta x acres = Alt 25	ı. 1: 10.51 & Alt.	
0.77	0.53	, tajastoa mitigation delt					I
<u> </u>		If make a second	-				
Delta = [with-current]		If mitigation Time lag (t-factor) =		Fo	or mitigation asse	ssment areas	
		l		RFG =	RFG = delta/(t-factor x risk) =		
0.23		Risk factor =		ILLEG -			I